

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A method for determining route redistribution at a device within a network, the method comprising:

receiving an information packet from a neighbor source, the information packet identifying the source as a stub router and specifying route types that the source will advertise; and

upon receiving notice of a failed link within the network, sending query packets requesting route information only to neighboring devices that have not been identified as stub routers.

Claim 2 (original): The method of claim 1 wherein receiving an information packet comprises receiving a hello packet containing peer information.

Claim 3 (original): The method of claim 1 wherein the device and stub router are configured for EIGRP.

Claim 4 (original): The method of claim 1 wherein the network has a hub and spoke arrangement and the device is a hub router and the stub router is a spoke.

Claim 5 (original): The method of claim 1 wherein the network includes a dual homed host.

Claim 6 (original): The method of claim 1 wherein the route type that the source will advertise is connected routes.

Claim 7 (original): The method of claim 1 wherein the route type that the source will advertise is summary routes.

Claim 8 (original): The method of claim 1 wherein the route type that the source will advertise is static routes.

Claim 9 (original): The method of claim 1 wherein the device and the neighboring devices have point-to-point links.

Claim 10 (original): The method of claim 1 wherein the device and the neighboring devices have multipoint links.

Claim 11 (original): The method of claim 10 wherein only one neighboring device is a stub router.

Claim 12 (original): The method of claim 10 wherein multiple neighboring devices are stub routers.

Claim 13 (original): The method of claim 1 wherein the device is a router.

Claim 14 (original): A method for reducing query generation for route redistribution within a network, the method comprising:

receiving information at a router identifying the router as a stub router;

sending an information packet from the stub router to neighboring devices, the information packet identifying the source as a stub router and specifying route types that the stub router will advertise; and

upon receiving a query for route information other than the type specified in the information packet, sending a response packet with routes identified as inaccessible.

Claim 15 (original): The method of claim 14 wherein the network has a hub and spoke arrangement and the stub router is a spoke.

Claim 16 (original): The method of claim 14 wherein the stub router is in communication with a dual homed device.

Claim 17 (original): The method of claim 14 wherein sending an information packet comprises transmitting a hello packet.

Claim 18 (original): The method of claim 14 wherein the stub router is configured for EIGRP.

Claim 19 (currently amended): A computer program product for determining route redistribution at a device within a network, the product comprising:

code that utilizes ~~receives~~ an information packet received from a neighbor source, the information packet identifying the source as a stub router and specifying route types that the source will advertise;

code that prepares ~~sends~~ query packets requesting route information and directs the query packets to be sent only to neighboring devices that have not been identified as stub routers upon receiving notice of a failed connection; and

a computer-readable storage medium for storing the codes.

Claim 20 (original): The computer program product of claim 19 wherein the computer readable medium is selected from the group consisting of CD-ROM, floppy disk, tape, flash memory, system memory, hard drive, and data signal embodied in a carrier wave.

Claim 21 (original): A computer system for determining route redistribution at a device within a network, the system comprising:

memory; and

a processor configured for receiving an information packet from a neighbor source, the information packet identifying the source as a stub router and specifying route types that the source will advertise, and sending query packets requesting route information only to neighboring devices that have not been identified as stub routers upon receiving notice of a failed connection.

Claim 22 (original): A computer system for reducing query generation for route redistribution within a network, the system comprising:

means for identifying a device as a stub router;

means for sending an information packet from the stub router to neighboring devices, the information packet identifying the source as a stub router and specifying route types that the stub router will advertise; and

upon receiving a query for route information other than the type specified in the information packet, means for sending a response packet with routes identified as inaccessible.

Claim 23 (currently amended): A computer program product for reducing query generation for route redistribution within a network, comprising:

code that utilizes ~~receives~~ information received at a router which identifies ~~identifying~~ the router as a stub router;

code that prepares ~~sends~~ an information packet to be sent from the stub router to neighboring devices, the information packet identifying the source as a stub router and specifying route types that the stub router will advertise; and

code that prepares ~~sends~~ a response packet to be sent with routes identified as inaccessible upon receiving a query for route information other than the type specified in the information packet; and

a computer-readable storage medium for storing the codes.

Claim 24 (original): A computer system for reducing query generation for route redistribution within a network, comprising:

a processor configured for receiving information at a router identifying the router as a stub router, sending an information packet from the stub router to neighboring devices, the information packet identifying the source as a stub router and specifying route types that the stub router will advertise, and sending a response packet with routes identified as inaccessible upon receiving a query for route information other than the type specified in the information packet; and

memory for storing information received by the processor.

Claim 25 (currently amended): A computer-implemented method for route redistribution within a network, the method comprising:
receiving information at a router identifying the router as a stub router; and
~~limiting~~ reducing the amount of route information sent by the stub router to a neighboring device in response to a query for route information.

Claim 26 (currently amended): ~~The method of claim 25~~ A computer-implemented method for route redistribution within a network, the method comprising:
receiving information at a router identifying the router as a stub router; and
limiting the amount of route information sent by the stub router to a neighboring device in response to a query for route information, wherein limiting the amount of route information sent by the stub router comprises limiting the route information to only connected routes.

Claim 27 (currently amended): ~~The method of claim 25~~ A computer-implemented method for route redistribution within a network, the method comprising:
receiving information at a router identifying the router as a stub router; and
limiting the amount of route information sent by the stub router to a neighboring device in response to a query for route information, wherein limiting the amount of route information sent by the stub router comprises limiting the route information to only summary routes.

Claim 28 (currently amended): ~~The method of claim 25~~ A computer-implemented method for route redistribution within a network, the method comprising:
receiving information at a router identifying the router as a stub router; and
limiting the amount of route information sent by the stub router to a neighboring device in response to a query for route information, wherein limiting the amount of route information sent by the stub router comprises limiting the route information to only static routes.

Claim 29 (currently amended): ~~The method of claim 25~~ A computer-implemented method for route redistribution within a network, the method comprising:
receiving information at a router identifying the router as a stub router; and
limiting the amount of route information sent by the stub router to a neighboring device in response to a query for route information, wherein limiting the amount of route information sent by the stub router comprises limiting the route information to only internal routes.

Claim 30 (currently amended): ~~The method of claim 25~~ A computer-implemented method for route redistribution within a network, the method comprising:
receiving information at a router identifying the router as a stub router; and
limiting the amount of route information sent by the stub router to a neighboring device in response to a query for route information, wherein limiting the amount of route information sent by the stub router comprises limiting the route information to only external routes.

Claim 31 (new): The system of claim 22 wherein the stub router is configured for EIGRP.

Claim 32 (new): The system of claim 22 wherein the network has a hub and spoke arrangement and the neighboring device is a hub router and the stub router is a spoke.

Claim 33 (new): The system of claim 22 wherein the network includes a dual homed host.

Claim 34 (new): The system of claim 22 wherein the route type that the stub router will advertise is connected routes.

Claim 35 (new): The system of claim 22 wherein the stub router is in communication with a dual homed device.

Claim 36 (new): The system of claim 22 wherein means for sending an information packet comprises transmitting a hello packet.
